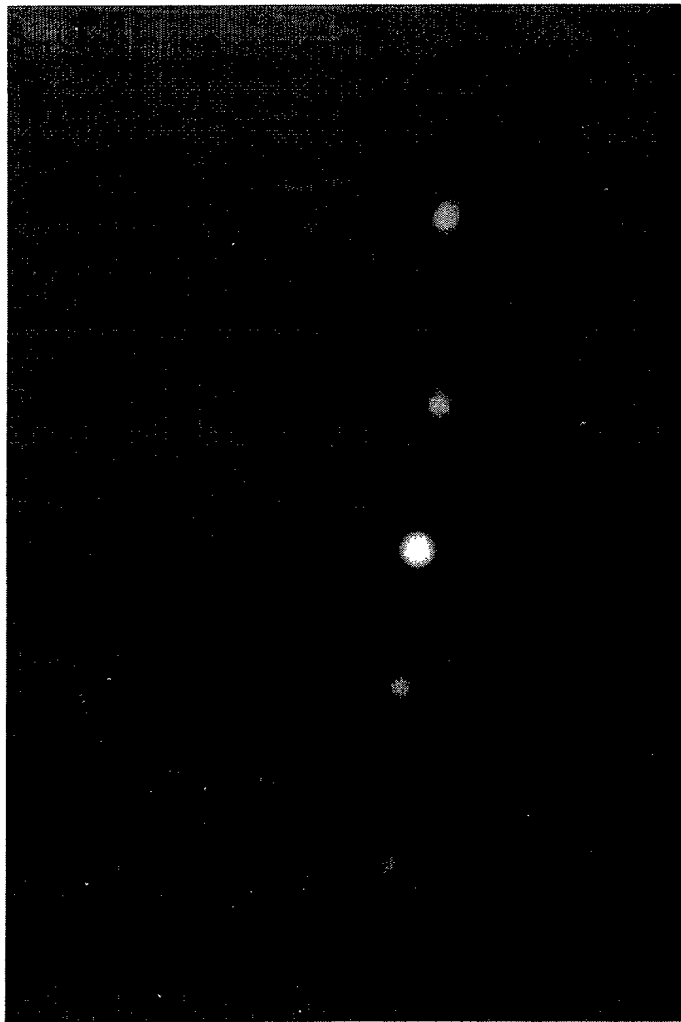


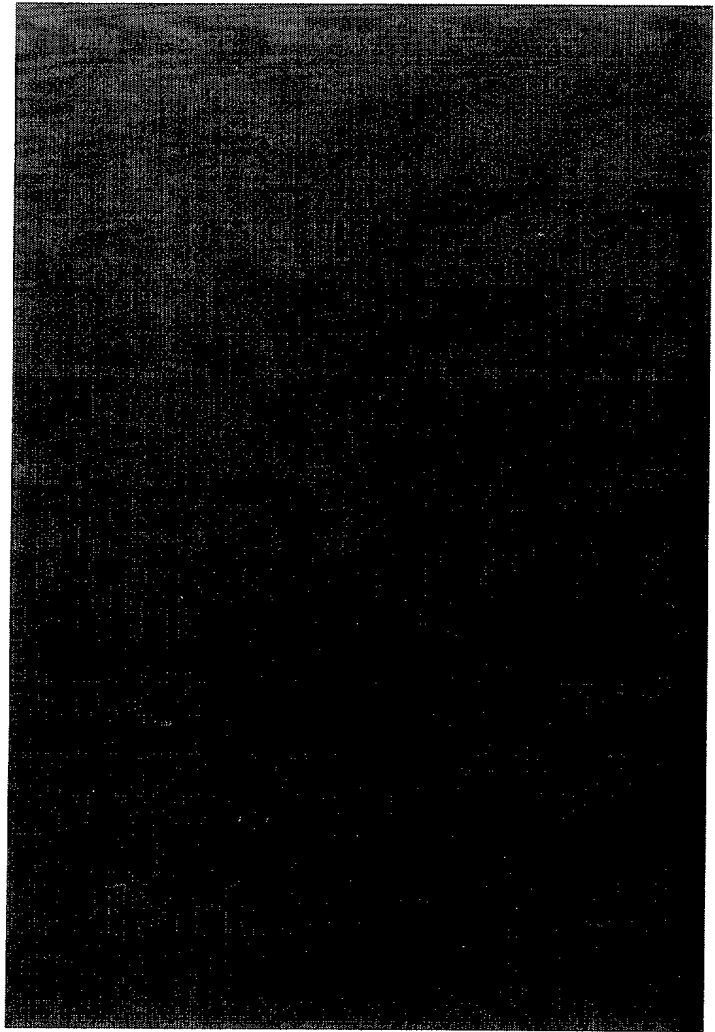
CYCLE
ADDED: 1 2 3 4 5 6 Black = Unlabeled Nucleotide
A C G T A C Red = Fluorescent Nucleotide



Sample 1:	3'	P'	A	G	C	T	G	T	...5'
	5'	P	T	C					
Sample 2:	3'	P'	G	T	C	T	A	T	...5'
	5'	P	C	A					

FIG. 1

CYCLE
ADDED: 1 2 3 4 5 6 7 8
A C G T A C G T



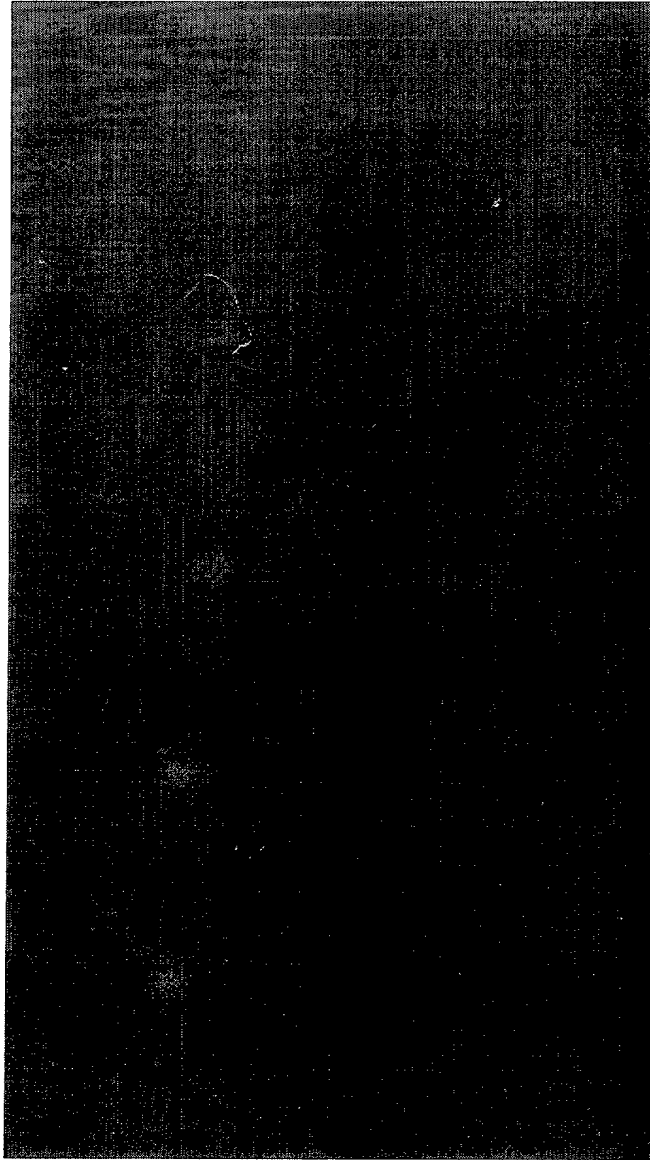
1

2

Sample 1:	3'	P'	A	G	C	T	G	T	...5'
	5'	P	T	C	G				
Sample 2:	3'	P'	G	T	C	T	A	T	...5'
	5'	P	C	A	G				

FIG. 2

CYCLE	1	2	3	4	5	6	7	8	9	10
ADDED:	A	C	G	T	A	C	G	T	A	C



1

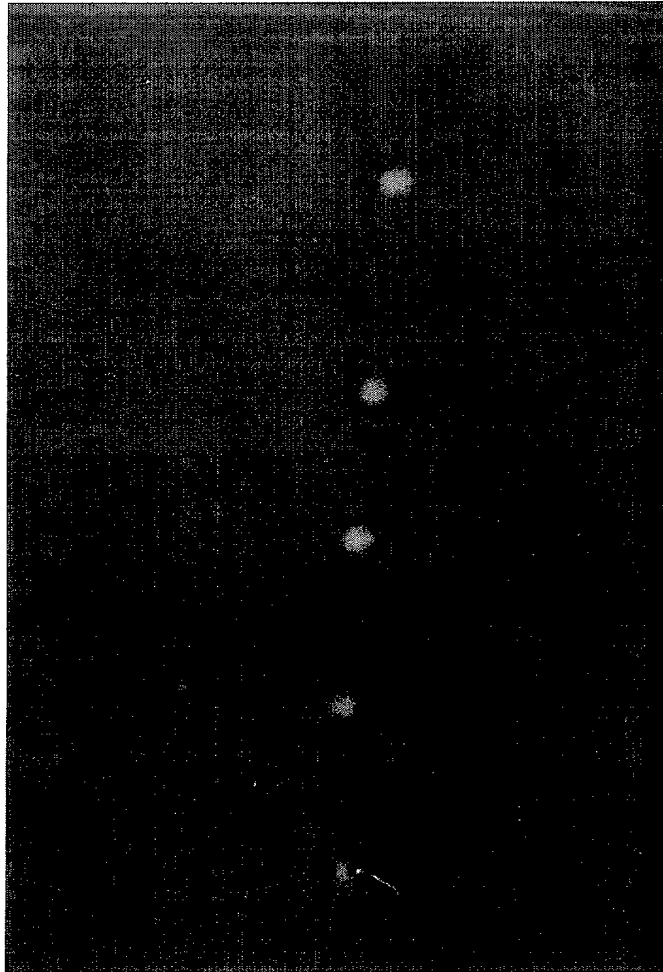
2

Sample 1:	3'	<div>P'</div>	A	G	C	T	G	T	...	5'
	5'	<div>P</div>	T	C	G	A	C			
Sample 2:	3'	<div>P'</div>	G	T	C	T	A	T	...	5'
	5'	<div>P</div>	C	A	G	A				

FIG. 3

CYCLE
ADDED:

1	2	3	4	5	6	7	8	9	10	11	12
A	C	G	T	A	C	G	T	A	C	G	T



1

2

Sample 1:	3'	<div>P'</div>	A	G	C	T	G	T	...	5'
	5'	<div>P</div>	T	C	G	A	C			
Sample 2:	3'	<div>P'</div>	G	T	C	T	A	T	...	5'
	5'	<div>P</div>	C	A	G	A	T			

FIG. 4

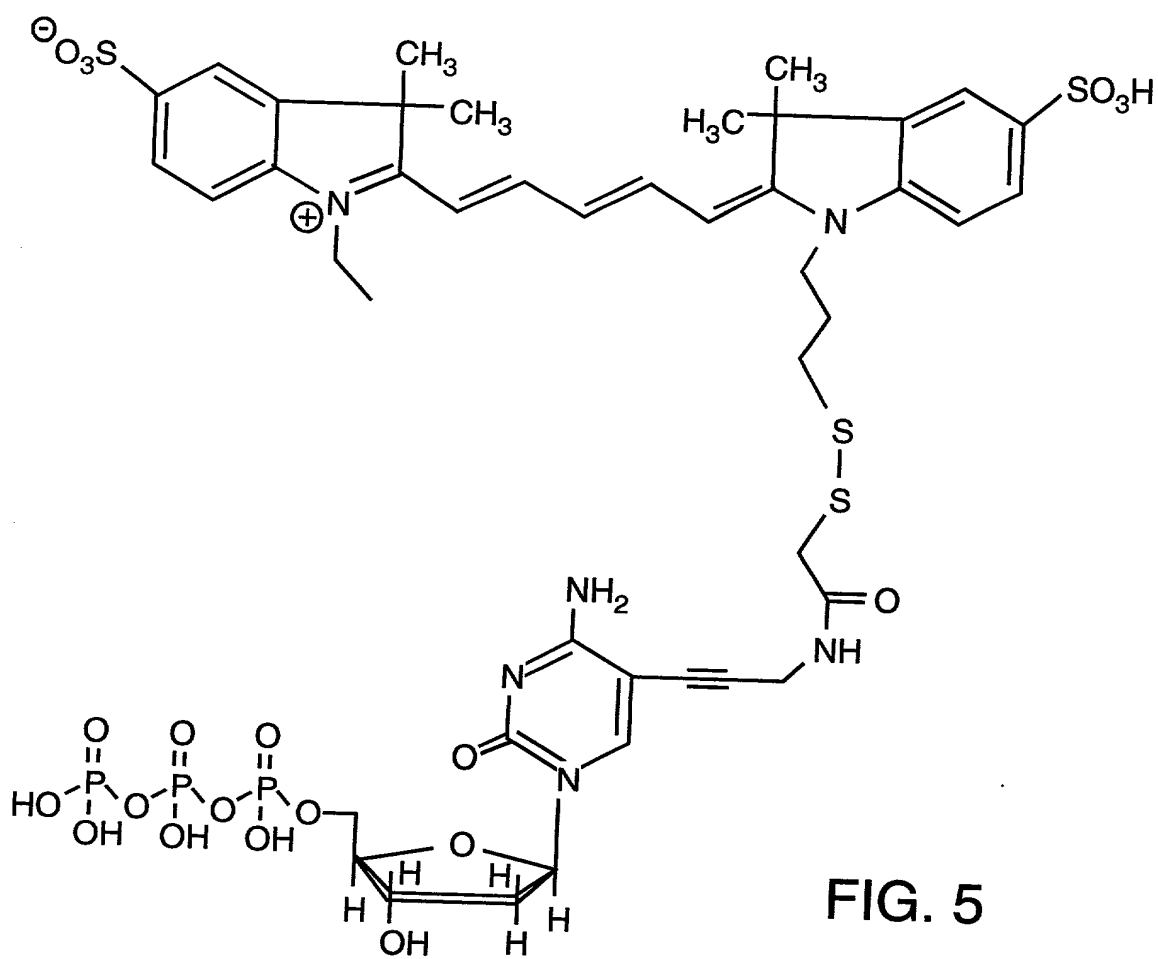
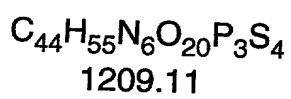
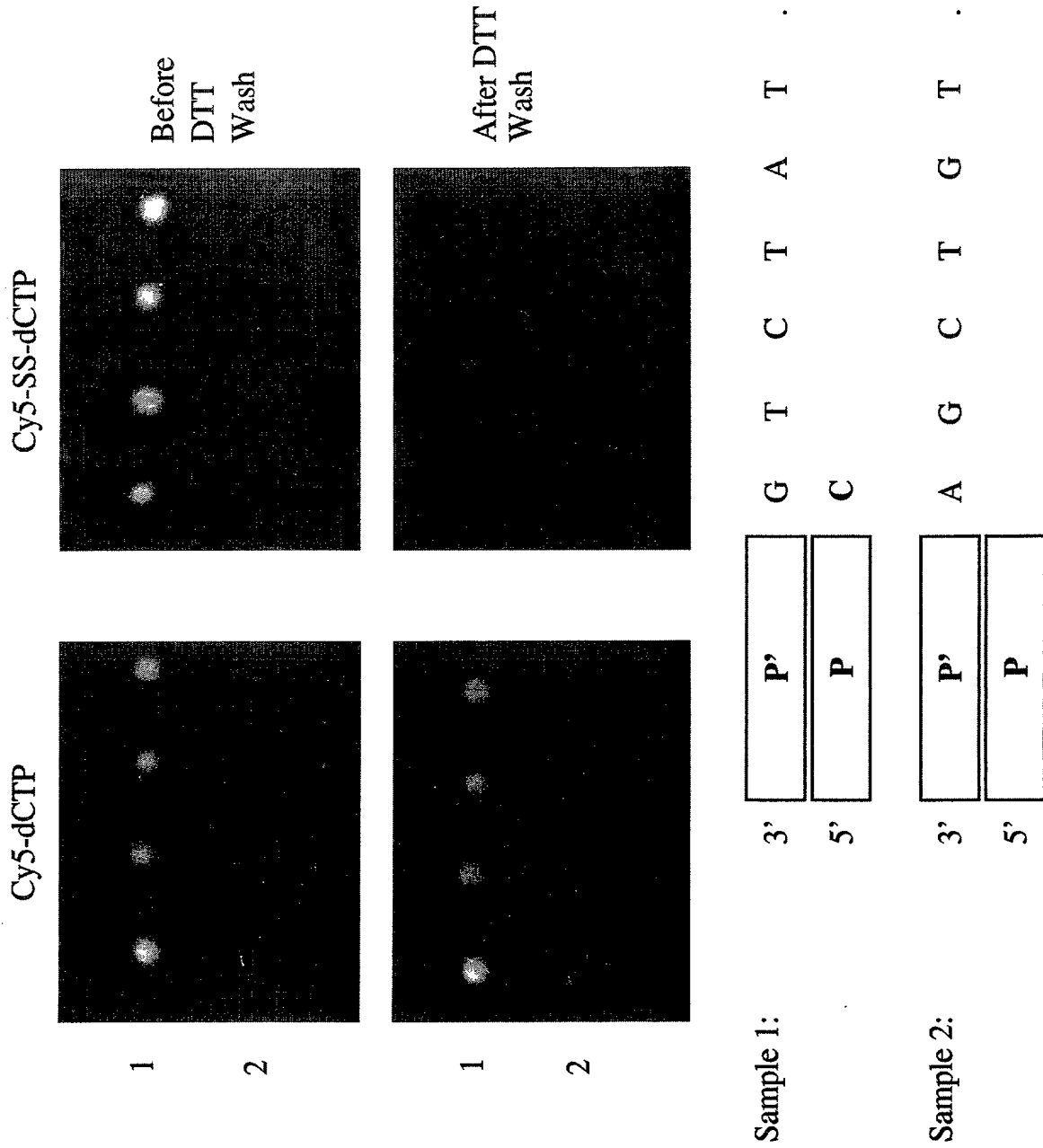


FIG. 5





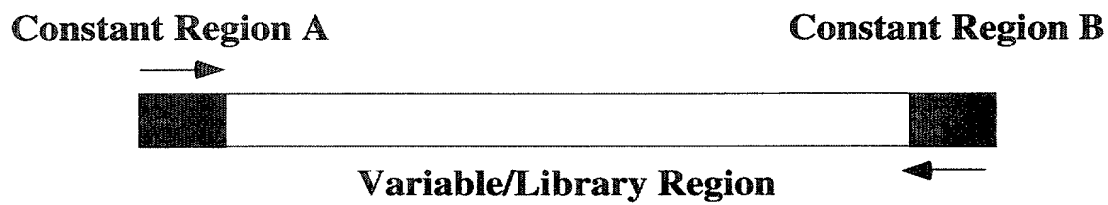


FIG. 7

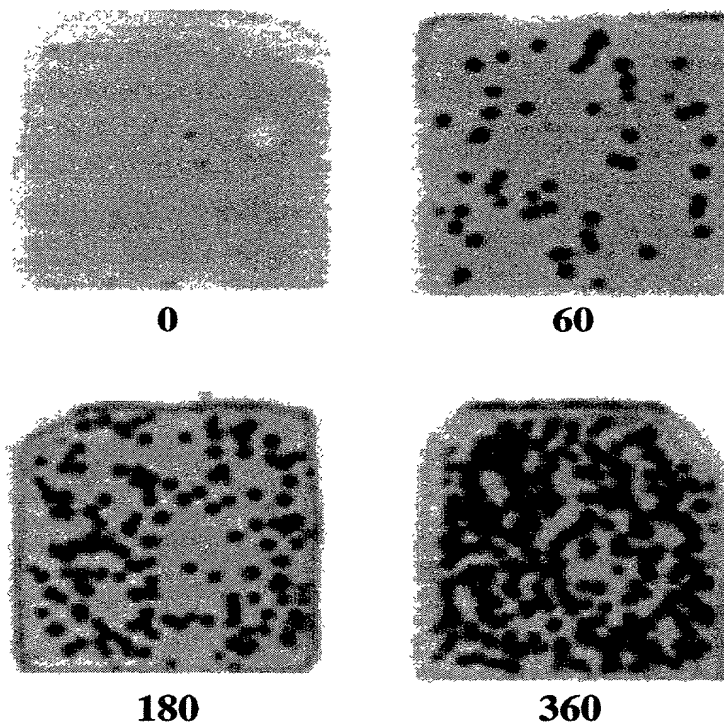


FIG. 8A

FIG. 8A

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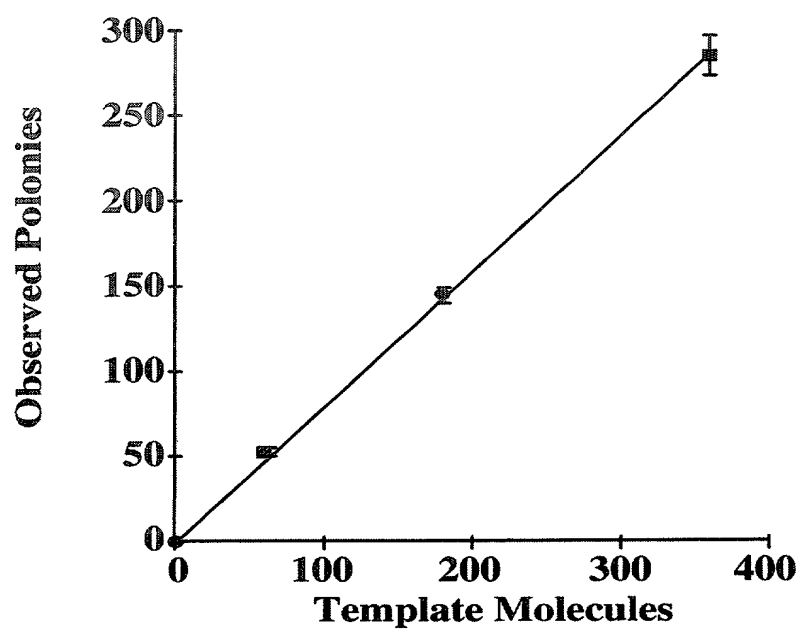


FIG. 8B

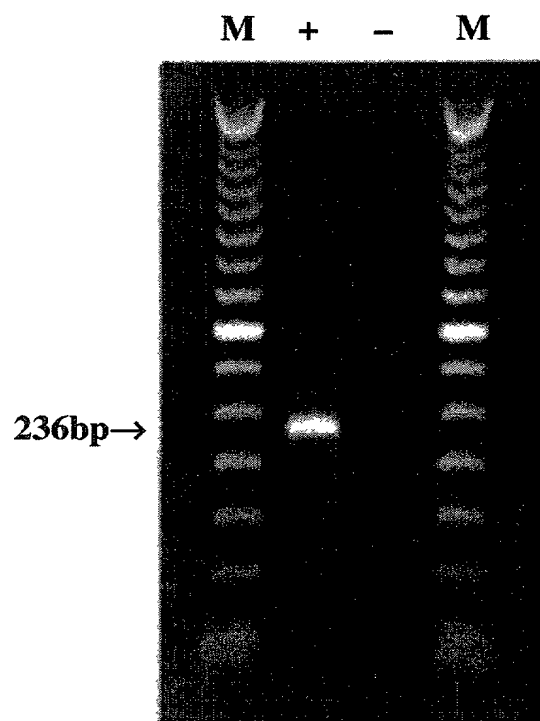


FIG. 8C

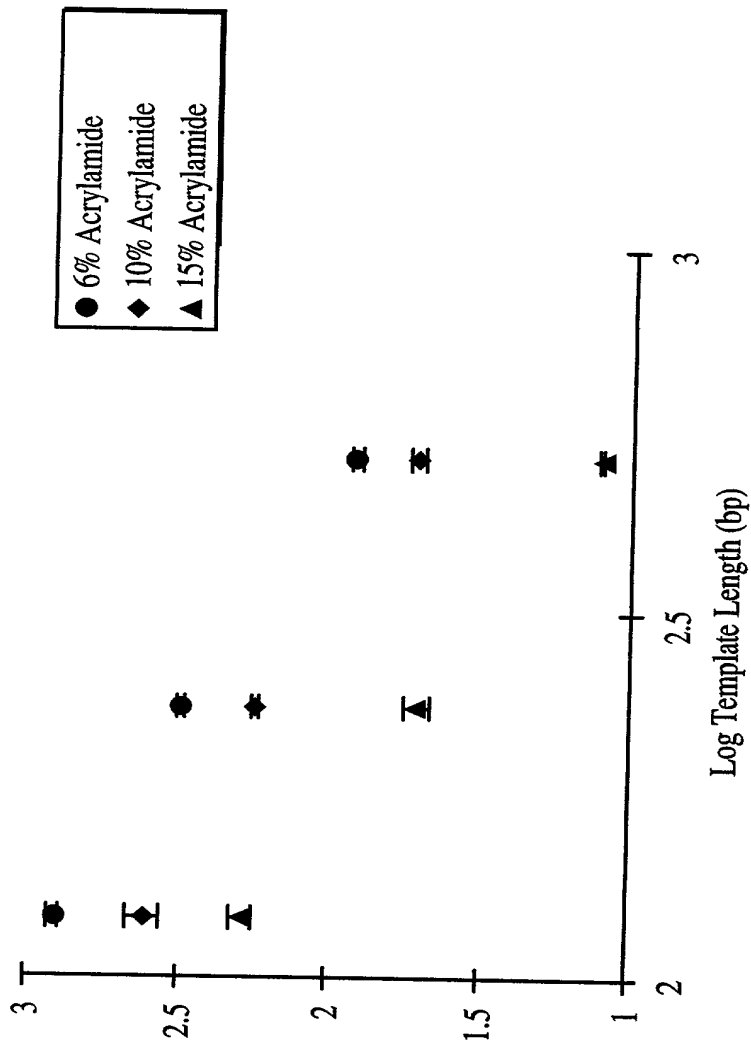


FIG. 9A

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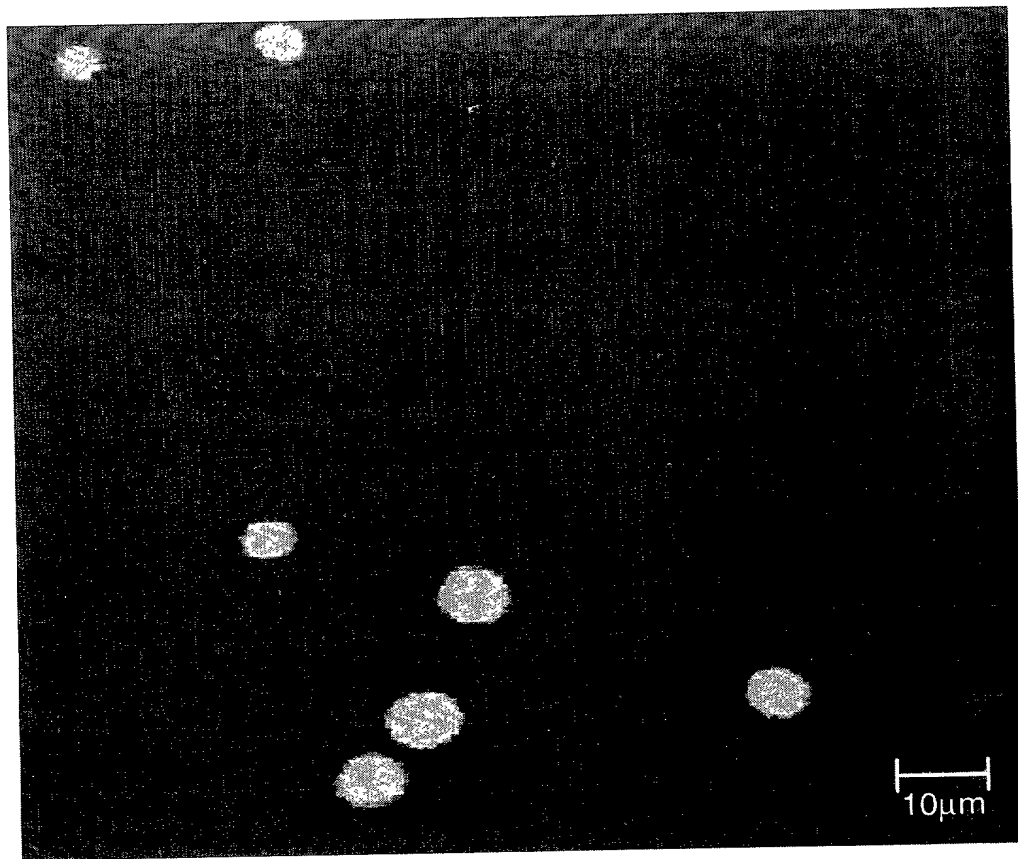


FIG. 9B

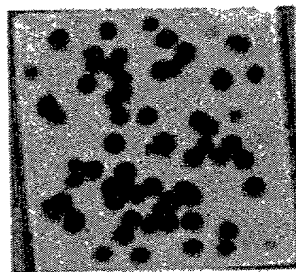


FIG. 10A

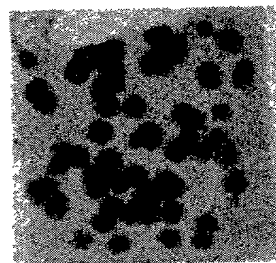


FIG. 10B